## Message

From: Macchio, Lisa [Macchio.Lisa@epa.gov]

**Sent**: 4/22/2019 7:31:45 PM

To: Opalski, Dan [Opalski.Dan@epa.gov]

CC: Werntz, James [Werntz.James@epa.gov]; Woodruff, Leigh [Woodruff.Leigh@epa.gov]

Subject: Burbot

Dan – wanted you to see this email I just received from Karen Kesler in HQ as I reached out to her about burbot and the Region 8 work.

I trust what Karen has provided at this juncture with respect to burbot sensitivity to selenium in comparison to sturgeon sensitivity to selenium - which is we do not know. Hope you find this information useful for now.

Lisa Macchio

U.S. Environmental Protection Agency Office of Water and Watersheds 1200 Sixth Avenue Seattle, WA 98101 (206) 553-1834 macchio.lisa@epa.gov

From: Kesler, Karen

Sent: Monday, April 22, 2019 12:24 PM

**To:** Macchio, Lisa <Macchio.Lisa@epa.gov>; Beaman, Joe <Beaman.Joe@epa.gov> **Subject:** RE: Which one of you is tracking the work on SE in Lake Koocanusa?

Hi Lisa,

Joe, Jason, and I have all been involved in the Koocanusa work to some degree, but Joe and Jason are more involved than I am currently.

As far as burbot go, we do not know their sensitivity currently and do not know how their sensitivity compares to sturgeon.

I believe USGS did some monitoring on the Kootenai River last summer (which was the samples R10 was running) but I have not heard yet whether that analysis has been completed yet. Jason is still your best bet with finding out that information.

Thanks, Karen

Karen Kesler, PhD Office of Science and Technology U.S. Environmental Protection Agency Washington, DC 202-564-4612

From: Macchio, Lisa

Sent: Monday, April 22, 2019 3:16 PM

To: Kesler, Karen < Kesler. Karen@epa.gov>; Beaman, Joe < Beaman.Joe@epa.gov>

Subject: Which one of you is tracking the work on SE in Lake Koocanusa?

Karen and Joe – I'm writing to both of you as I'm not sure who is the HQ person tracking some of the work R8 is doing on selenium and burbot.

I reached out to Jason Gildea in R8 this morning to get an update, but have not yet heard back from him. In some of the materials he had sent me last fall I found some burbot muscle data and I'm interested in trying to figure out whether or not burbot are more or less sensitive to selenium than sturgeon.

Here are a couple of documents that I dug up. I thought if you had the time you could take a look at the burbot muscle data. The Decision Points document had a link in it that took me to a website where I could download the burbot muscle document.

I understood that R8 was going to do some more monitoring/sampling work (maybe this year? Or maybe it was last year, not sure) but the EPA Manchester Lab here in R10 had agreed to do the analysis. Unfortunately, I don't know who to contact to get an update on that. I was hoping it was Jason in R8.

Let me know if you can give me some sense of what this limited burbot muscle data might indicate w/ respect to more or less sensitive than sturgeon.. or maybe we just don't know yet.

Thanks for any help you can provide.

Lisa Macchio

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